Listing of Claims

Below is a listing of the presently pending claims in this application:

Listing of Claims

- 1. (Original) A normally open pressure-operated fluid valve, comprising:
 - a) a body having a fluid inlet and a fluid outlet formed therein;
- b) a valve seat in said body forming a closable flow path between said inlet and said outlet;
- c) a housing extending from said valve seat and having a cavity therein, the end of said cavity proximate to said valve seat being sealingly closed off by a flexible diaphragm;
- d) said diaphragm being biased away from said valve seat by a fluid flowing in said flow path; and
- e) said diaphragm being selectively biasable against said valve seat to stop the flow of fluid in said flow path by pressurizing said cavity with a pressure medium.
- 2. (Original) The valve of Claim 1, in which said pressure medium is compressed air at a pressure greater than the pressure of said fluid in said flow path.
- 3. (Original) The valve of Claim 2, in which fluid flow in said flow path is controlled by selectively connecting said cavity to a source of compressed air, connecting said cavity to atmosphere, or blocking air flow to or from said cavity.
- 4. (Original) The valve of Claim 2, in which said fluid in said flow path is water.

- 5. (Original) A method of converting a normally closed electric solenoid valve to a non-electrically operated normally open valve, said solenoid valve including a flow path through a valve seat, a housing extending from said valve seat, and a plunger normally spring-biased into valve-closing contact with said valve seat but retractable into a cavity in said housing by energizing a solenoid coil to open said valve, comprising the steps of:
 - a) removing said spring-biased plunger;
- b) modifying said housing to allow the selective introduction of a pressure medium into said cavity;
- c) sealingly closing off said cavity from said flow path with a diaphragm sufficiently flexible to normally be pushed off said valve seat by the pressure of a fluid flowing in said flow path; and
- d) selectively introducing a pressure medium into said cavity so as to bias said diaphragm into contact with said valve seat when it is desired to close the valve.
- 6. (Original) The method of Claim 5, in which said pressure medium is compressed air and said fluid is water.
- 7. (Original) The method of Claim 5, in which said solenoid coil is also removed.